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PATENT ABSTRACTS OF JAPAN(21) Application number: **07091788**(51) Intl. Cl.: **B01F 17/54 A61K 7/00 C08G 77/388 C11I 1/62**(22) Application date: **23.03.95**

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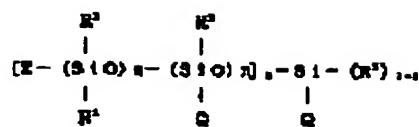
(54) CATIONIC SURFACTANT

(57) Abstract:

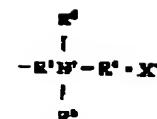
PURPOSE: To provide a specific cationic surfactant enhancing surface tension lowering capacity, smoothness and safety when adapted to a detergent being an applied use.

CONSTITUTION: A cationic surfactant is represented by formula I {wherein R1 is a same or different 1-18C substituted or non-substituted monovalent hydrocarbon group, a is 1 or 2, m and n are an integer of 0-20, Q is a group represented by either one of formulae II IX (wherein R2 is a 1-10C divalent hydrocarbon group, R3, R4 and R5 are a 1-4C alkyl group or a hydroxyalkyl group, y is 2 or 3 and X is a halogen atom or R4 SO₄) and Z is R1 or Q}. Since this surfactant has excellent characteristics, it is useful as a skin washing agent such as a body shampoo or a cleansing

agent and a household detergent such as a dish-washing agent. Further, it can be utilized as cosmetics, medicines or a washing agent by putting the characteristics of the compd. to practical use.

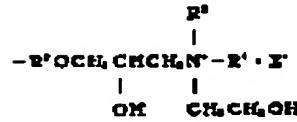


I

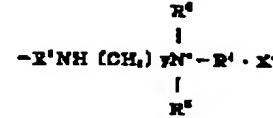


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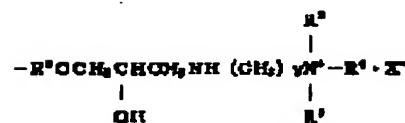
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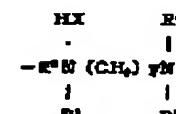
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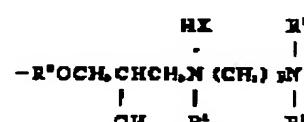
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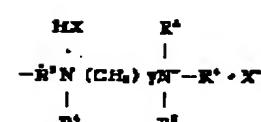
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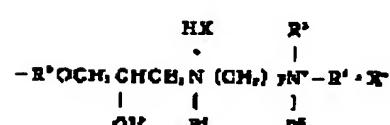
VIII



IV



IX



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